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STRUCTURE FILE UPDATES: 20 SEP 2000 HIGHEST RN 289881-52-3

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 11, 2000

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Structure search limits have been increased. See HELP SLIMIT for details.

=> s alkyloligoglycoside

L1 0 ALKYLOLIGOGLYCOSIDE

=> s octylglucopyranoside

L2 0 OCTYLGLUCOPYRANOSIDE

=> s octylglucopyranoside

L3 0 OCTYLGLUCOPYRANOSIDE

=> e glucopyranoside

E1	1	GLUCOPYRANOSIDASE/BI
E2	89	GLUCOPYRANOSIDATO/BI
E3	62241 -->	GLUCOPYRANOSIDE/BI
E4	2	GLUCOPYRANOSIDO/BI
E5	1	GLUCOPYRANOSIDOVER/BI
E6	1	GLUCOPYRANOSIDOVERAZIN/BI
E7	1	GLUCOPYRANOSIDOVERAZINE/BI
E8	1	GLUCOPYRANOSIDURANIC/BI
E9	6	GLUCOPYRANOSIDURO/BI
E10	404	GLUCOPYRANOSIDURON/BI
E11	275	GLUCOPYRANOSIDURONAMIDE/BI
E12	1	GLUCOPYRANOSIDURONAMIDO/BI

=> s e3

L4 62241 GLUCOPYRANOSIDE/BI

=> s alkyl

L5 5790 ALKYL

=> s 14 and 15

L6 2 L4 AND L5

=> d 16 1

L6 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2000 ACS
 RN 166939-76-0 REGISTRY
 CN Isocyanic acid, polymethylenepolyphenylene ester, polymer with methyloxirane polymer with oxirane ether with .beta.-D-fructofuranosyl .alpha.-D-glucopyranoside, methyloxirane polymer with oxirane mono[[bis(2-hydroxyethyl)amino]alkyl] ether ether with methyloxirane polymer with oxirane (1:2), and .alpha.,.alpha.',.alpha.''-1,2,3-propanetriyltris[.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)]] (9CI)
 (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Oxirane, methyl-, polymer with oxirane, ether with

.beta.-D-fructofuranosyl .alpha.-D-glucopyranoside, polymer with
methyloxirane polymer with oxirane mono[[bis(2-hydroxyethyl)amino]alkyl]
ether ether with methyloxirane polymer with oxirane (1:2),
polymethylenepolyphenylene isocyanate and
.alpha.,.alpha.',.alpha.''-1,2,3-
propanetriyltris[.omega.-hydroxypoly[oxy(ethyl-1,2-ethanediyl)]] (9CI)
CN Oxirane, methyl-, polymer with oxirane, mono[[bis(2-
hydroxyethyl)amino]alkyl] ether, ether with methyloxirane polymer with
oxirane (1:2), polymer with methyloxirane polymer with oxirane ether with
.beta.-D-fructofuranosyl .alpha.-D-glucopyranoside,
polymethylenepolyphenylene isocyanate and
.alpha.,.alpha.',.alpha.''-1,2,3-
propanetriyltris[.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)]] (9CI)
CN Oxirane, polymer with methyloxirane, ether with .beta.-D-
fructofuranosyl .alpha.-D-glucopyranoside, polymer with methyloxirane
polymer with oxirane mono[[bis(2-hydroxyethyl)amino]alkyl] ether ether
with methyloxirane polymer with oxirane (1:2), polymethylenepolyphenylene
isocyanate and .alpha.,.alpha.',.alpha.''-1,2,3-propanetriyltris[.omega.-
hydroxypoly[oxy(methyl-1,2-ethanediyl)]] (9CI)
CN Oxirane, polymer with methyloxirane, mono[[bis(2-
hydroxyethyl)amino]alkyl] ether, ether with methyloxirane polymer with
oxirane (1:2), polymer with methyloxirane polymer with oxirane ether with
.beta.-D-fructofuranosyl .alpha.-D-glucopyranoside,
polymethylenepolyphenylene isocyanate and
.alpha.,.alpha.',.alpha.''-1,2,3-
propanetriyltris[.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)]] (9CI)
CN Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.',.alpha.''-1,2,3-
propanetriyltris[.omega.-hydroxy-, polymer with methyloxirane polymer
with
oxirane ether with .beta.-D-fructofuranosyl .alpha.-D-glucopyranoside,
methyloxirane polymer with oxirane mono[[bis(2-hydroxyethyl)amino]alkyl]
ether ether with methyloxirane polymer with oxirane (1:2), and
polymethylenepolyphenylene isocyanate (9CI)
FS STEREOSEARCH
MF (C12 H22 O11 . (C3 H6 O)n (C3 H6 O)n (C3 H6 O)n C3 H8 O3 . x (C3 H6 O .
C2 H4 O)x . Unspecified . Unspecified)x
CI PMS
PCT Manual component, Polyether, Polyether formed, Polyother, Polyurethane,
Polyurethane formed
SR CA
LC STN Files: CA, CAPLUS

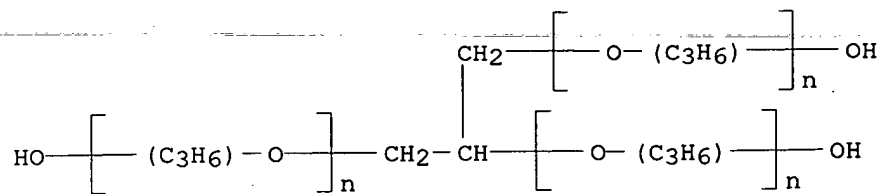
CM 1

CRN 172019-46-4
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 25791-96-2
CMF (C3 H6 O)n (C3 H6 O)n (C3 H6 O)n C3 H8 O3
CCI IDS, PMS



CM 3

CRN 9016-87-9

CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 4

CRN 52434-08-9

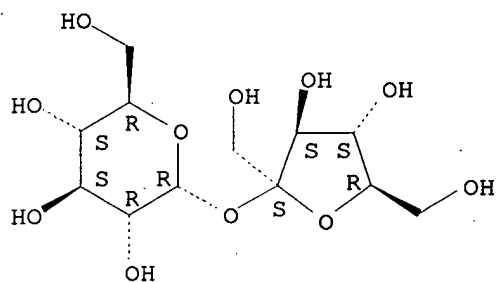
CMF C12 H22 O11 . x (C3 H6 O . C2 H4 O)x

CM 5

CRN 57-50-1

CMF C12 H22 O11

Absolute stereochemistry.



CM 6

CRN 9003-11-6

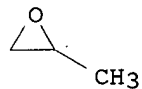
CMF (C3 H6 O . C2 H4 O)x

CCI PMS

CM 7

CRN 75-56-9

CMF C3 H6 O



CM 8



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> d his

(FILE 'HOME' ENTERED AT 14:20:25 ON 21 SEP 2000)

FILE 'REGISTRY' ENTERED AT 14:20:30 ON 21 SEP 2000

L1 0 S ALKYLOLIGOLYCOSE
L2 0 S OCTYLGLUCOPYRANOSIDE
L3 0 S OCTYLGLUCOPYRANOSIDE
E GLUCOPYRANOSIDE
L4 62241 S E3
L5 5790 S ALKYL
L6 2 S L4 AND L5

=> d 16 2

L6 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2000 ACS
RN 124860-37-3 REGISTRY
CN .alpha.-D-Glucopyranoside, .beta.-D-fructofuranosyl, mixt. with
alkylbenzyltrimethylammonium chlorides (9CI) (CA INDEX NAME)
MF C12 H22 O11 . Unspecified
CI MXS, MAN
SR CA
LC STN Files: CA, CAPLUS, TOXLIT

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> file ca

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	22.94	23.09

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FILE COVERS 1967 - 15 Sep 2000 VOL 133 ISS 13
FILE LAST UPDATED: 15 Sep 2000 (20000915/ED)

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=> d his

(FILE 'HOME' ENTERED AT 14:20:25 ON 21 SEP 2000)

FILE 'REGISTRY' ENTERED AT 14:20:30 ON 21 SEP 2000

L1 0 S ALKYLOLIGOLYCOSE
L2 0 S OCTYLGLUCOPYRANOSIDE
L3 0 S OCTYLGLUCOPYRANOSIDE
E GLUCOPYRANOSIDE
L4 62241 S E3
L5 5790 S ALKYL
L6 2 S L4 AND L5

FILE 'CA' ENTERED AT 14:24:29 ON 21 SEP 2000

=> s 14

L7 95287 L4

=>

=> e alkyloligoglycosides

E1 3 ALKYLOLIGOGLUCOSIDES/BI
E2 1 ALKYLOLIGOGLYCOSE/BI
E3 3 --> ALKYLOLIGOGLYCOSE/BI
E4 1 ALKYLOLIGONUCLEOTIDE/BI
E5 1 ALKYLOLIGOXYALKYLENE/BI
E6 3 ALKYLOLIGOXYETHYLENE/BI
E7 2 ALKYLOLIGORIBO/BI
E8 4 ALKYLOLIGORIBONUCLEOTIDE/BI
E9 6 ALKYLOLIGORIBONUCLEOTIDES/BI
E10 1 ALKYLOLIGOSACCHARIDE/BI
E11 1 ALKYLOLIGOSILOXANES/BI
E12 1 ALKYLOLIGOSTYRENES/BI

=> s e1-e3 or e10

3 ALKYLOLIGOGLUCOSIDES/BI
1 ALKYLOLIGOGLYCOSE/BI
3 ALKYLOLIGOGLYCOSE/BI
1 ALKYLOLIGOSACCHARIDE/BI
L8 7 (ALKYLOLIGOGLUCOSIDES/BI OR ALKYLOLIGOGLYCOSE/BI OR
ALKYLOLIGO
GLYCOSE/BI) OR ALKYLOLIGOSACCHARIDE/BI

=> s 18 1-7

MISSING OPERATOR L8 1-7

The search profile that was entered contains terms or

nested terms that are not separated by a logical operator.

=> d 18 1-7

L8 ANSWER 1 OF 7 CA COPYRIGHT 2000 ACS
AN 127:96855 CA
TI Cleaning agents for hard surfaces
IN Hees, Udo; Kiewert, Eva; Eskuchen, Rainer
PA Henkel Kgaa, Germany
SO Ger. Offen., 7 pp.
CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19648438	A1	19970612	DE 1996-19648438	19961122
PRAI	DE 1995-19545486		19951206		

L8 ANSWER 2 OF 7 CA COPYRIGHT 2000 ACS
AN 127:67678 CA
TI Emulsifying agents
IN Ansmann, Achim; Kawa, Rolf; Nitsche, Michael; Gondek, Helga
PA Henkel Kommanditgesellschaft Auf Aktien, Germany
SO PCT Int. Appl., 20 pp.
CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9718033	A1	19970522	WO 1996-EP4840	19961106
	W: AU, BG, BR, BY, CA, CN, CZ, HU, IS, JP, KR, LT, LV, MX, NO, NZ, PL, RO, RU, SI, SK, UA				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT,				
SE	DE 19542572	A1	19970522	DE 1995-19542572	19951115
	DE 19542572	C2	19980520		
	DE 19636039	A1	19980312	DE 1996-19636039	19960905
	AU 9675658	A1	19970605	AU 1996-75658	19961106
	EP 804280	A1	19971105	EP 1996-938108	19961106
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE				
	JP 10512897	T2	19981208	JP 1996-518550	19961106
PRAI	DE 1995-19542572		19951115		
	DE 1996-19636039		19960905		
	WO 1996-EP4840		19961106		

L8 ANSWER 3 OF 7 CA COPYRIGHT 2000 ACS
AN 126:104359 CA
TI Preparation of **alkyloligoglucosides** having a high degree of
oligomerization
IN Weuthen, Manfred
PA Henkel Kgaa, Germany
SO Ger. Offen., 5 pp.
CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19519384	A1	19961128	DE 1995-19519384	19950526
	WO 9637501	A2	19961128	WO 1996-EP752	19960223

WO 9637501 A3 19970103
 W: JP, US
 RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
 EP 828747 A2 19980318 EP 1996-905784 19960223
 R: DE, ES, FR, GB, IT, SE
 JP 11505810 T2 19990525 JP 1996-535290 19960223
 US 5955587 A 19990921 US 1997-952643 19971120
 PRAI DE 1995-19519384 19950526
 WO 1996-EP752 19960223
 OS MARPAT 126:104359

 L8 ANSWER 4 OF 7 CA COPYRIGHT 2000 ACS
 AN 125:104236 CA
 TI Structure and activity of sulfated alkyl oligosaccharide having potent anti-HIV activity
 AU Katsuraya, Kaname; Uryu, Toshiyuki
 CS Inst. Ind. Sci., Univ. Tokyo, Tokyo, 106, Japan
 SO Seisan Kenkyu (1996), 48(3), 165-8
 CODEN: SEKEAI; ISSN: 0037-105X
 DT Journal
 LA Japanese

 L8 ANSWER 5 OF 7 CA COPYRIGHT 2000 ACS
 AN 124:185097 CA
 TI Product concepts and product improvements in hair cleaning and hair care
 AU Ziolkowsky, Bernd
 CS Verlag Chem. Ind. H. Ziolkowsky G.m.b.H., Augsburg, D-86150, Germany
 SO SOFW J. (1995), 121(13), 973-4, 976, 979
 CODEN: SOFJEE; ISSN: 0942-7694
 DT Journal; General Review
 LA German

 L8 ANSWER 6 OF 7 CA COPYRIGHT 2000 ACS
 AN 120:111460 CA
 TI Base detergents for soap-free lubricants
 IN Laufenberg, Alfred; Winkelmann, Birgit; Strothoff, Werner
 PA Henkel KGaA, Germany
 SO Ger. Offen., 8 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4206506	A1	19930909	DE 1992-4206506	19920302
	WO 9318121	A1	19930916	WO 1993-EP413	19930222
	W: CA, FI, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 629235	A1	19941221	EP 1993-904004	19930222
	EP 629235	B1	19951115		
	R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL				
	AT 130361	E	19951215	AT 1993-904004	19930222
	ES 2079966	T3	19960116	ES 1993-904004	19930222
	US 5565127	A	19961015	US 1994-295804	19941109
PRAI	DE 1992-4206506		19920302		
	WO 1993-EP413		19930222		
OS	MARPAT 120:111460				

PA Henkel K.-G.a.A., Germany

SO Ger. Offen., 5 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4140332	A1	19930609	DE 1991-4140332	19911206
	DE 4140332	C2	19950907		
	WO 9311143	A1	19930610	WO 1992-EP2750	19921127
	W: BR, JP, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
PRAI	DE 1991-4140332		19911206		

=> d 18 1-7 all

L8 ANSWER 1 OF 7 CA COPYRIGHT 2000 ACS

AN 127:96855 CA

TI Cleaning agents for hard surfaces

IN Hees, Udo; Kiewert, Eva; Eskuchen, Rainer

PA Henkel Kgaa, Germany

SO Ger. Offen., 7 pp.

CODEN: GWXXBX

DT Patent

LA German

IC ICM C11D001-66

ICS C11D001-86

CC 46-6 (Surface Active Agents and Detergents)

Section cross-reference(s): 44

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19648438	A1	19970612	DE 1996-19648438	19961122
PRAI	DE 1995-19545486		19951206		

AB The title compns., which can be adjusted without difficulty to the desired

viscosity and provide adequate amts. of stable foams even in the presence of strong alkalis, contain the **alkyloligoglucosides** RO(G)p (R = branched C9-11 alkyl; G = glucose residue; p = 1.4-2.0). An aq. mixt.

(pH 9.4) of C9-10-alkyloligoglucoside (d.p. 1.43) 7.0, ethoxylated (d.p. 8.50)

C10-14 fatty alc. 2.0, diethoxylated C12-14 fatty alc. Na sulfate 2.0, coco fatty acids 0.4, and Na gluconate 1.0% was used to cleanse an artificially-soiled surface, giving a 58% remission in whiteness.

ST cleaning compn hard surface; oligoglucoside alkyl cleaning agent; glucoside oligomeric alkyl cleanser

IT Glycosides

RL: TEM (Technical or engineered material use); USES (Uses)

(alkyl oligoglycosides, C9-11; cleaning agents for hard surfaces)

IT Detergents

(cleaning compns.; cleaning agents for hard surfaces contg.

alkyloligoglucosides)

L8 ANSWER 2 OF 7 CA COPYRIGHT 2000 ACS

AN 127:67678 CA

TI Emulsifying agents

IN Ansmann, Achim; Kawa, Rolf; Nitsche, Michael; Gondek, Helga

PA Henkel Kommanditgesellschaft Auf Aktien, Germany

SO PCT Int. Appl., 20 pp.

CODEN: PIXXD2

DT Patent

LA German

IC ICM B01F017-00
ICS A61K007-00

CC 46-4 (Surface Active Agents and Detergents)
Section cross-reference(s): 62, 63

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9718033	A1	19970522	WO 1996-EP4840	19961106
	W: AU, BG, BR, BY, CA, CN, CZ, HU, IS, JP, KR, LT, LV, MX, NO, NZ, PL, RO, RU, SI, SK, UA				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT,				
SE	DE 19542572	A1	19970522	DE 1995-19542572	19951115
	DE 19542572	C2	19980520		
	DE 19636039	A1	19980312	DE 1996-19636039	19960905
	AU 9675658	A1	19970605	AU 1996-75658	19961106
	EP 804280	A1	19971105	EP 1996-938108	19961106
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE				
	JP 10512897	T2	19981208	JP 1996-518550	19961106
PRAI	DE 1995-19542572		19951115		
	DE 1996-19636039		19960905		
	WO 1996-EP4840		19961106		
AB	The emulsifying agents contain 43-99 alkyl and/or alkenyl oligoglycosides and 1-57 wt.% fatty alcs. Optionally, the emulsifiers also contain hydrophilic waxes. Prepn. of the emulsifiers involves (1) conventional acidic acetalization of glucose and excess fatty alc. and (2) adjusting				
of	the amts. of alkyloligoglycosides and excess fatty alcs. in the resulting mixt. either by removing the fatty acids by distn. or by adding the glycosides to a desired level. The emulsifying agents are particularly suitable for producing storage-stable, high-viscosity oil-in-water emulsions of a light feel, esp. for cosmetics and pharmaceuticals.				
ST	emulsifier glycoside fatty alc				
IT	Glycosides				
	RL: NUU (Nonbiological use, unclassified); USES (Uses) (alkyl oligoglycosides; in emulsifier)				
IT	Emulsifying agents				
	(glycoside-fatty alc. mixt.)				
IT	Alcohols, uses				
	RL: NUU (Nonbiological use, unclassified); USES (Uses) (guerbet; in emulsifier)				
IT	C16-18 alcohols				
	RL: NUU (Nonbiological use, unclassified); USES (Uses) (in emulsifier)				
IT	Glycerides, uses				
	RL: NUU (Nonbiological use, unclassified); USES (Uses) (palm, hydrogenated; in emulsifier)				
IT	25191-16-6D, Polyglucose, cetearyl ethers 27458-93-1, Isostearyl alcohol				
	RL: NUU (Nonbiological use, unclassified); USES (Uses) (in emulsifier)				
L8	ANSWER 3 OF 7 CA COPYRIGHT 2000 ACS				
AN	126:104359 CA				
TI	Preparation of alkyloligoglucosides having a high degree of oligomerization				
IN	Weuthen, Manfred				
PA	Henkel Kgaa, Germany				
SO	Ger. Offen., 5 pp.				

CODEN: GWXXBX

DT Patent

LA German

IC ICM C07H003-06

ICS C07C031-125; C07H001-00; B01J027-053; B01J031-02

CC 33-4 (Carbohydrates)

FAN.CNT 1

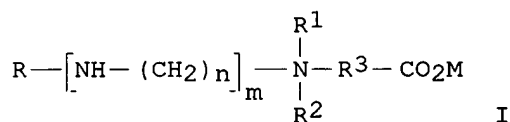
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19519384	A1	19961128	DE 1995-19519384	19950526
	WO 9637501	A2	19961128	WO 1996-EP752	19960223
	WO 9637501	A3	19970103		
	W: JP, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 828747	A2	19980318	EP 1996-905784	19960223
	R: DE, ES, FR, GB, IT, SE				
	JP 11505810	T2	19990525	JP 1996-535290	19960223
	US 5955587	A	19990921	US 1997-952643	19971120
PRAI	DE 1995-19519384		19950526		
	WO 1996-EP752		19960223		
OS	MARPAT 126:104359				
AB	<p>Alkyloligoglucosides were prep'd. by reaction of glucose with C6-C22 alkanols at 90-120.degree. in the presence of an acid catalyst. The degree of oligomerization was increased by continuously distg. off water formed in the reaction, neutralizing the catalyst, sepg. unreacted alc., and lowering the temp. at the end of the reaction. In the reaction using glucose and dodecanol in the presence of dodecylbenzenesulfonic acid with distn. of water and other improvements, the product mixt. contained mono- 37.3, di- 20.1, tri- 12.8, tetra- 9.5, penta- 8.5, and hexaglucoside 4.7%, compared with 51.9, 16.7, 8.9, 7.2, 3.7, and 1.8%, resp., for a comparison example.</p>				
ST	oligoglucoside alkyl prepn; glucoside oligo prepn				
IT	Oligomerization				
	(prepn. of alkyloligoglucosides having high degree of oligomerization)				
IT	25191-16-6P, Polyglucose				
	RL: BYP (Byproduct); PREP (Preparation)				
	(prepn. of alkyloligoglucosides having high degree of oligomerization)				
IT	27176-87-0, Dodecylbenzenesulfonic acid				
	RL: CAT (Catalyst use); USES (Uses)				
	(prepn. of alkyloligoglucosides having high degree of oligomerization)				
IT	50-99-7, D-Glucose, reactions 112-53-8, 1-Dodecanol				
	RL: RCT (Reactant)				
	(prepn. of alkyloligoglucosides having high degree of oligomerization)				
IT	59122-55-3P, Lauryl monoglucoside 140486-55-1P 140632-83-3P				
	148278-13-1P 185832-16-0P 185860-77-9P				
	RL: SPN (Synthetic preparation); PREP (Preparation)				
	(prepn. of alkyloligoglucosides having high degree of oligomerization)				
L8	ANSWER 4 OF 7 CA COPYRIGHT 2000 ACS				
AN	125:104236 CA				
TI	Structure and activity of sulfated alkyl oligosaccharide having potent anti-HIV activity				
AU	Katsuraya, Kaname; Uryu, Toshiyuki				
CS	Inst. Ind. Sci., Univ. Tokyo, Tokyo, 106, Japan				
SO	Seisan Kenkyu (1996), 48(3), 165-8				
	CODEN: SEKEAI; ISSN: 0037-105X				

DT Journal
 LA Japanese
 CC 1-3 (Pharmacology)
 Section cross-reference(s): 33
 AB Hydrolysis in dil. HCl/DMSO of curdlan gave mixt. of laminari-
 oligosaccharides, which by column chromatog. with charcoal/EtOH-H₂O gave
 laminaritetraose (I). Biochem. selective anal. by enzyme of curdlan gave
 laminaripentaose (II). Treatment of pure I with AcOK/Ac₂O gave
 peracetylated laminaritetraoside (III) (.beta./alpha. ratio 3.2-3.8),
 which with alkyl alcs. by SnCl₄ catalyst gave peracetylated alkyl
 laminaritetraosides, V, VI, VII and VIII in 45, 55, 54 and 28 % yields,
 resp. Similarly, pure II gave peracetylated laminaripentaoside (IV),
 which with alkyl alcs. similarly gave peracetylated alkyl
 laminaripentaosides IX, X, XI, XII and XIII in 50, 54, 47, 55 and 70%
 yields, resp. Sulfated alkyl laminaritetraosides XIV, XV, XVI and XVII
 were synthesized by treatment of, V, VI, VII and VIII treated with
 NaOMe/MeOH, with N-SO₃/Pyridine. Similarly, sulfated alkyl
 laminaripentaosides XVIII, XIX, XX and XXII were synthesized. The
 anti-HIV activity of XIV-XXII was measured by using curdlan sulfate as
 ref. The anti-HIV activity of XIV-XVII decreased with shortening of
 alkyl portion under 8 of carbonic no. EC₅₀ value of XIV and XV was 24 and 14
 .mu.g/mL, resp. EC₅₀ value of XVI and XVII was 3.2 and 3.3 .mu.g/mL,
 resp., which was significantly lower than that of XVIII-XXII, resp.
 Structure of laminarioligosaccharides having more than pentasaccharides
 was important for high potent anti-HIV activity. XVIII and XIX having
 (+)-2-octyl and (-)-2-octyl portion, esp., both showed similar anti-HIV
 activity. Cytotoxic effect of all compds. tested was low. Usefulness of
 laminaripentaosides is discussed as anti-HIV active agents.
 ST sulfated **alkyloligosaccharide** structure HIV virucide
 IT Molecular structure-biological activity relationship
 Virucides and Virustats
 (structure and activity of sulfated alkyl oligosaccharide having
 potent anti-HIV activity)
 IT Oligosaccharides
 RL: BAC (Biological activity or effector, except adverse); PRP
 (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (structure and activity of sulfated alkyl oligosaccharide having
 potent anti-HIV activity)
 IT Virus, animal
 (human immunodeficiency 1, structure and activity of sulfated alkyl
 oligosaccharide having potent anti-HIV activity)
 IT 23743-55-7P, Laminaripentaose 26212-72-6P, Laminaritetraose
 178937-36-5P 178937-37-6P 178937-38-7P 178937-39-8P 178937-40-1P
 178937-41-2P 178937-42-3P 178937-43-4P 178937-44-5P 178937-45-6P
 178937-46-7P 178937-47-8P 178937-48-9P 178937-49-0P 178937-50-3P
 178937-51-4P 179090-56-3P 179090-57-4P
 RL: BAC (Biological activity or effector, except adverse); PRP
 (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL
 (Biological study); PREP (Preparation); USES (Uses)
 (structure and activity of sulfated alkyl oligosaccharide having
 potent anti-HIV activity)
 IT 54724-00-4, Curdlan
 RL: RCT (Reactant)
 (structure and activity of sulfated alkyl oligosaccharide having
 potent anti-HIV activity)

AN 124:185097 CA
 TI Product concepts and product improvements in hair cleaning and hair care
 AU Ziolkowsky, Bernd
 CS Verlag Chem. Ind. H. Ziolkowsky G.m.b.H., Augsburg, D-86150, Germany
 SO SOFW J. (1995), 121(13), 973-4, 976, 979
 CODEN: SOFJEE; ISSN: 0942-7694
 DT Journal; General Review
 LA German
 CC 62-0 (Essential Oils and Cosmetics)
 AB A review with 11 refs. on the new developments of hair products is given.
 For the improvement of hair care **alkyloligoglucosides**, ester
 units and natural triglycerides with a high content of unsatd. fatty
 acids
 are recommended.
 ST review hair care cleaning improvement
 IT Hair preparations
 (improvements in hair cleaning and hair care)

L8 ANSWER 6 OF 7 CA COPYRIGHT 2000 ACS
 AN 120:111460 CA
 TI Base detergents for soap-free lubricants
 IN Laufenberg, Alfred; Winkelmann, Birgit; Strothoff, Werner
 PA Henkel KGaA, Germany
 SO Ger. Offen., 8 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 IC ICM C10M169-04
 ICS C10M173-02; C11D001-66; B08B003-04; B65G045-08
 ICI C10M169-04, C10M133-00, C10M129-16, C10M105-60; C10N040-04, C10N030-04,
 C10N030-18
 CC 51-8 (Fossil Fuels, Derivatives, and Related Products)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4206506	A1	19930909	DE 1992-4206506	19920302
	WO 9318121	A1	19930916	WO 1993-EP413	19930222
	W: CA, FI, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 629235	A1	19941221	EP 1993-904004	19930222
	EP 629235	B1	19951115		
	R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL				
	AT 130361	E	19951215	AT 1993-904004	19930222
	ES 2079966	T3	19960116	ES 1993-904004	19930222
	US 5565127	A	19961015	US 1994-295804	19941109
PRAI	DE 1992-4206506		19920302		
	WO 1993-EP413		19930222		
OS	MARPAT 120:111460				
GI					



AB The lubricants for use in the food and beverage industries, esp. for
 chain
 and conveyor system lubrication, are based on the amphoteric compds.
 alkyl dimethylaminooxides and **alkyloligoglycosides** contg. primary,
 secondary, and/or tertiary amines and/or salts of amines I, R⁴-NH-R⁵,

R4-N+H2-R5X-, R4-NH-(CH2)3NH2, R4-NH-(CH2)3N+H3X-, R4-N+H2-(CH2)3N+H32X-,
R4-NR7R8, and/or R4-N+HR7R8X-; where R is a linear or branched C6-22

alkyl group; R1 is H, C1-4 alkyl or hydroxyalkyl group or the remnant -R3COOM;
R2 occurs only when M is neg. and is H, C1-4 alkyl or hydroxyalkyl group;
R3 is a C1-12 alkyl group; R4 is a C6-22 alkyl group, a Ph remnant contg.
a C6-22 alkyl group; R5 is H or a R4; R6 is H or a substituted C1-20

alkyl group or a C2-20 alkenyl group, and R7 and R8 are independently
substituted C1-20 alkyl or C2-20 alkenyl groups or a Ph remnant contg. a
C1-20 alkyl group; M is H, alkali metal, ammonium, a C1-4 alkyl group, a
benzyl remnant, or a neg. charge; n is an integer of 1-12, m is an

integer of 0-5; and l is an integer of 0-5. The lubricants have a friction value
of 0.1-0.12 or less; provide lubrication, cleaning, and disinfection; do
not react with PET bottles; are compatible with water of all hardnesses;
and are esp. suitable for mixed glass-PET use.

ST nonionic detergent food grade lubricant

IT Beverages
Lubricants
(nonionic detergent-based lubricants for use in food and beverage
industries)

IT Food
(nonionic detergent-based lubricants for use in industries processing)

IT 34689-88-8D, alkylated coco oil derivs. 60077-07-8D, coco oil derivs.
152698-21-0D, coco oil derivs.
RL: USES (Uses)
(detergent, nonionic detergent-based lubricants from, for use in food
and beverage industries)

L8 ANSWER 7 OF 7 CA COPYRIGHT 2000 ACS

AN 120:57047 CA

TI Two-stage distillation process for the removal of alcohols from
alkyloligoglycoside mixtures

IN Carduck, Franz Josef; Esskuchen, Rainer

PA Henkel K.-G.a.A., Germany

SO Ger. Offen., 5 pp.
CODEN: GWXXBX

DT Patent

LA German

IC ICM C07H015-04
ICS C07H001-06; C07C029-80

CC 44-6 (Industrial Carbohydrates)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4140332	A1	19930609	DE 1991-4140332	19911206
	DE 4140332	C2	19950907		
	WO 9311143	A1	19930610	WO 1992-EP2750	19921127
	W: BR, JP, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
PRAI	DE 1991-4140332		19911206		
AB	The process comprises decreasing the alc. content of the mixts. in a 1st stage to <50 wt.%, and in a 2nd stage to <1 wt.% with the use of a screw flight evaporator. The 1st stage may be preformed in a falling-film evaporator, and the 2nd process may be carried out in the presence of soda, Na2SO4 or Na aluminosilicate. The resulting alkyloligoglycosides have improved color.				
ST	evaporator alc evapn alkyloligoglycoside ; falling film evaporator alc evapn; screw evaporator alc evapn				
IT	Distillation (2-stage, for removal of alcs. from alkyloligoglycosides)				
IT	Alcohols, miscellaneous				

RL: REM (Removal or disposal); PROC (Process)
 (C4-22, removal of, from **alkyloligoglycoside** mixts., two-stage distn. process for)

IT Evaporators
 (falling-film, removal with, first-stage, of alcs., from **alkyloligoglycoside** mixts., two-stage distn. process for)

IT Glycosides
 RL: USES (Uses)
 (oligo-, alkyl, alc. removal from, two-stage distn. process for)

IT Evaporators
 (screw, removal with falling-film evaporator and, of alcs., from **alkyloligoglycoside** mixts., two-stage distn. process for)

IT 497-19-8, Sodium carbonate, uses 1344-00-9, Sodium aluminosilicate
 7757-82-6, Sodium sulfate, uses
 RL: USES (Uses)
 (removal in presence of, of alcs. from **alkyloligoglycoside** mixts.)

=> d his

(FILE 'HOME' ENTERED AT 14:20:25 ON 21 SEP 2000)

FILE 'REGISTRY' ENTERED AT 14:20:30 ON 21 SEP 2000

L1 0 S ALKYLOLIGOGLYCOSIDE
 L2 0 S OCTYLGLUCOPYRANOSIDE
 L3 0 S OCTYLGLUCOPYRANOSIDE
 E GLUCOPYRANOSIDE
 L4 62241 S E3
 L5 5790 S ALKYL
 L6 2 S L4 AND L5

FILE 'CA' ENTERED AT 14:24:29 ON 21 SEP 2000

L7 95287 S L4
 E ALKYLOLIGOGLYCOSIDES
 L8 7 S E1-E3 OR E10

=> e oligoglycosides

E1 1 OLIGOGLYCOSIDASES/BI
 E2 200 OLIGOGLYCOSIDE/BI
 E3 350 --> OLIGOGLYCOSIDES/BI
 E4 4 OLIGOGLYCOSIDIC/BI
 E5 1 OLIGOGLYCOPHINGOLIPIDS/BI
 E6 33 OLIGOGLYCOSYL/BI
 E7 2 OLIGOGLYCOSYLALDITOL/BI
 E8 7 OLIGOGLYCOSYLALDITOLS/BI
 E9 1 OLIGOGLYCOSYLAMINE/BI
 E10 1 OLIGOGLYCOSYLAMINES/BI
 E11 1 OLIGOGLYCOSYLCERAMIDE/BI
 E12 5 OLIGOGLYCOSYLCERAMIDES/BI

=> s e2-e4

200 OLIGOGLYCOSIDE/BI
 350 OLIGOGLYCOSIDES/BI
 4 OLIGOGLYCOSIDIC/BI
 L9 415 (OLIGOGLYCOSIDE/BI OR OLIGOGLYCOSIDES/BI OR OLIGOGLYCOSIDIC/BI)

=> s viral or virus or hiv or herpes

87438 VIRAL

222284 VIRUS
32572 HIV
17533 HERPES
L10 239284 VIRAL OR VIRUS OR HIV OR HERPES

=> s 19 and l10

L11 3 L9 AND L10

=> d l11 1-3

'L-3' IS NOT A VALID FORMAT FOR FILE 'CA'

The following are valid formats:

ABS ----- GI and AB
ALL ----- BIB, AB, IND, RE
APPS ----- AI, PRAI
BIB ----- AN, plus Bibliographic Data and PI table (default)
CAN ----- List of CA abstract numbers without answer numbers
CBIB ----- AN, plus Compressed Bibliographic Data
DALL ----- ALL, delimited (end of each field identified)
DMAX ----- MAX, delimited for post-processing
FAM ----- AN, PI and PRAI in table, plus Patent Family data
FBIB ----- AN, BIB, plus Patent FAM
IND ----- Indexing data
IPC ----- International Patent Classifications
MAX ----- ALL, plus Patent FAM, RE
PATS ----- PI, SO
SAM ----- CC, SX, TI, ST, IT
SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;
SCAN must be entered on the same line as the DISPLAY,
e.g., D SCAN or DISPLAY SCAN)
STD ----- BIB, IPC, and NCL

IABS ----- ABS, indented with text labels
IALL ----- ALL, indented with text labels
IBIB ----- BIB, indented with text labels
IMAX ----- MAX, indented with text labels
ISTD ----- STD, indented with text labels

OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations

HIT ----- Fields containing hit terms
HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT)
containing hit terms
HITRN ----- HIT RN and its text modification
HITSTR ----- HIT RN, its text modification, its CA index name, and
its structure diagram
FHITSTR ----- First HIT RN, its text modification, its CA index name, and
its structure diagram
KWIC ----- Hit term plus 20 words on either side
OCC ----- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of formats include: TI; TI,AU; BIB,ST; TI,IND; TI,SO. You may specify the format fields in any order and the information will be displayed in the same order as the format

specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR, FHITSTR, KWIC, and OCC) may be used with DISPLAY ACC to view a specified Accession Number.

ENTER DISPLAY FORMAT (BIB):3

'3' IS NOT A VALID FORMAT FOR FILE 'CA'

The following are valid formats:

ABS ----- GI and AB
ALL ----- BIB, AB, IND, RE
APPS ----- AI, PRAI
BIB ----- AN, plus Bibliographic Data and PI table (default)
CAN ----- List of CA abstract numbers without answer numbers
CBIB ----- AN, plus Compressed Bibliographic Data
DALL ----- ALL, delimited (end of each field identified)
DMAX ----- MAX, delimited for post-processing
FAM ----- AN, PI and PRAI in table, plus Patent Family data
FBIB ----- AN, BIB, plus Patent FAM
IND ----- Indexing data
IPC ----- International Patent Classifications
MAX ----- ALL, plus Patent FAM, RE
PATS ----- PI, SO
SAM ----- CC, SX, TI, ST, IT
SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;
SCAN must be entered on the same line as the DISPLAY,
e.g., D SCAN or DISPLAY SCAN)
STD ----- BIB, IPC, and NCL

IABS ----- ABS, indented with text labels
IALL ----- ALL, indented with text labels
IBIB ----- BIB, indented with text labels
IMAX ----- MAX, indented with text labels
ISTD ----- STD, indented with text labels

OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations

HIT ----- Fields containing hit terms
HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT)
containing hit terms
HITRN ----- HIT RN and its text modification
HITSTR ----- HIT RN, its text modification, its CA index name, and
its structure diagram
FHITSTR ----- First HIT RN, its text modification, its CA index name, and
its structure diagram
KWIC ----- Hit term plus 20 words on either side
OCC ----- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of formats include: TI; TI,AU; BIB,ST; TI,IND; TI,SO. You may specify the format fields in any order and the information will be displayed in the same order as the format specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR, FHITSTR, KWIC, and OCC) may be used with DISPLAY ACC to view a

L11 ANSWER 1 OF 3 CA COPYRIGHT 2000 ACS

AN 123:33580 CA

TI Preparation of sulfated and acylated **oligoglycosides** as virucides.

IN Shoji, Tadao; Kasai, Akira; Misumi, Osamu; Ikushima, Naoya; Yamamoto, Naoki; Nakashima, Hideki; Inazawa, Kazuhiko; Takahashi, Nahoko

PA Dainippon Ink Chemical Industry Co., Japan

SO Eur. Pat. Appl., 47 pp.

CODEN: EPXXDW

DT Patent

LA English

IC ICM C07H017-065

ICS C07H015-203; C07H015-04; C08B037-00; A61K031-70

CC 33-4 (Carbohydrates)

Section cross-reference(s): 1, 63

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 606882	A1	19940720	EP 1994-100286	19940111
	R: CH, DE, FR, GB, LI				
	JP 06256373	A2	19940913	JP 1993-327070	19931224
	US 5459257	A	19951017	US 1994-179623	19940107
PRAI	JP 1993-2566		19930111		

AB Sulfated, acylated **oligoglycosides** made up of 1 or 2 kinds of monosaccharide units and in which oligosaccharide the H atom in the OH group at the 1-position of a reducing end sugar of the oligosaccharide

has

been substituted with an aglycon selected from alkyl, aralkyl, aralkoxy, and tocopheryl groups, and from 12 to 80 % of the residual hydroxyl

groups

in the oligosaccharide have been acylated with aliph. or arom. acyl groups, and 88 to 20 % thereof have been sulfated; with the proviso that compds. wherein the aglycon is an alkyl group and the acyl group is an aliph. acyl group are excluded, were prepd. Thus, laminaripentaose was converted to O-sulfated n-dodecyl O-benzoyl-.beta.-D-laminaripentaoside (I) by successive peracetylation with Ac2O/NaOAc, glycosidation with n-dodecanol, deacetylation with NaOMe, acylation with PhCOCl/pyridine,

and

sulfation with SO3.pyridine. Title compds. showed anti-HIV activity in MT-4 cells with EC50 = 0.4-20.6 .mu.g/mL. I tablet formulations are given.

ST **oligoglycoside** sulfated acylated prepn virucide; hivvirucide sulfated acylated **oligoglycoside**

IT Virucides and Virustats

(prepn. of sulfated and acylated **oligoglycosides** as virucides)

IT Glycosides

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of sulfated and acylated **oligoglycosides** as virucides)

IT	141704-74-7DP, sulfated, acylated	141790-12-7DP, sulfated, acylated
	145703-23-7DP, sulfated, acylated	145703-25-9DP, sulfated, acylated
	150396-27-3DP, sulfated, acylated	150396-36-4DP, sulfated, acylated
	162736-36-9DP, sulfated, acylated	162736-37-0DP, sulfated, acylated
	162736-38-1DP, sulfated, acylated	162736-39-2DP, sulfated, acylated
	162736-40-5DP, sulfated, acylated	162736-41-6DP, sulfated, acylated
	162736-44-9DP, sulfated, acylated	162736-45-0DP, sulfated, acylated

162736-53-ODP, sulfated, acylated 162736-53-OP 162762-10-9DP,
sulfated, acylated 162762-11-0DP, sulfated, acylated
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic
preparation); THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses)

(prepn. of sulfated and acylated **oligoglycosides** as
virucides)

IT 98-88-4, Benzoyl chloride 111-64-8, n-Octanoyl chloride 112-16-3,
n-Dodecanoyl chloride 112-67-4, Hexadecanoyl chloride 141-75-3,
Butyryl chloride 403-43-0, 4-Fluorobenzoyl chloride 10191-41-0,
DL-..alpha..-Tocopherol 23743-55-7, Laminaripentaose 49763-65-7,
4-Pentylbenzoyl chloride 72482-64-5, 2,4-DiFluorobenzoyl chloride
RL: RCT (Reactant)

(prepn. of sulfated and acylated **oligoglycosides** as
virucides)

IT 49587-44-2P 141704-74-7P 141790-12-7P 145703-24-8P 145703-25-9P
150396-27-3P 150396-36-4P 151293-08-2P 162736-36-9P 162736-37-0P
162736-38-1P 162736-39-2P 162736-40-5P 162736-41-6P 162736-44-9P
162736-45-0P 162736-47-2P 162736-48-3P 162736-49-4P 162736-50-7P
162736-51-8P 162736-52-9P 162762-10-9P 162762-11-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of sulfated and acylated **oligoglycosides** as
virucides)

=> d his

(FILE 'HOME' ENTERED AT 14:20:25 ON 21 SEP 2000)

FILE 'REGISTRY' ENTERED AT 14:20:30 ON 21 SEP 2000

L1 0 S ALKYLOLIGOLYCOSE
L2 0 S OCTYLGLUCOPYRANOSIDE
L3 0 S OCTYLGLUCOPYRANOSIDE
E GLUCOPYRANOSIDE
L4 62241 S E3
L5 5790 S ALKYL
L6 2 S L4 AND L5

FILE 'CA' ENTERED AT 14:24:29 ON 21 SEP 2000

L7 95287 S L4
E ALKYLOLIGOLYCOSE
L8 7 S E1-E3 OR E10
E OLIGOLYCOSE
L9 415 S E2-E4
L10 239284 S VIRAL OR VIRUS OR HIV OR HERPES
L11 3 S L9 AND L10

=> d l11 1-3

L11 ANSWER 1 OF 3 CA COPYRIGHT 2000 ACS

AN 123:33580 CA

TI Preparation of sulfated and acylated **oligoglycosides** as
virucides.

IN Shoji, Tadao; Kasai, Akira; Misumi, Osamu; Ikushima, Naoya; Yamamoto,
Naoki; Nakashima, Hideki; Inazawa, Kazuhiko; Takahashi, Nahoko

PA Dainippon Ink Chemical Industry Co., Japan

SO Eur. Pat. Appl., 47 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 606882	A1	19940720	EP 1994-100286	19940111
	R: CH, DE, FR, GB, LI				
	JP 06256373	A2	19940913	JP 1993-327070	19931224
	US 5459257	A	19951017	US 1994-179623	19940107
PRAI	JP 1993-2566		19930111		

L11 ANSWER 2 OF 3 CA COPYRIGHT 2000 ACS
AN 119:135660 CA
TI Astragalosides from Egyptian Astragalus spinosus Vahl
AU Abdallah, Rokia M.; Ghazy, Nabila M.; El-Sebakhy, Nadia A.; Pirillo, Angela; Verotta, Luisella
CS Fac. Pharm., Univ. Alexandria, Egypt
SO Pharmazie (1993), 48(6), 452-4
CODEN: PHARAT; ISSN: 0031-7144
DT Journal
LA English

L11 ANSWER 3 OF 3 CA COPYRIGHT 2000 ACS
AN 117:70254 CA
TI Preparation of **oligoglycoside** sulfates as antiviral agents and pharmaceutical compositions containing them.
IN Shoji, Tadao; Takahashi, Nahoko; Ikushima, Naoya; Katsuraya, Kaname; Uryu, Toshiyuki; Yoshida, Takashi; Nishihashi, Hideji; Yamamoto, Naoki; Nakashima, Hideki; Shigeta, Shiro
PA Dainippon Ink Chemical Industry Co., Japan
SO PCT Int. Appl., 86 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9203453	A1	19920305	WO 1991-JP1122	19910823
	W: AU, CA, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
	CA 2071915	AA	19920224	CA 1991-2071915	19910823
	AU 9183346	A1	19920317	AU 1991-83346	19910823
	AU 644895	B2	19931223		
	EP 497988	A1	19920812	EP 1991-914756	19910823
	R: CH, DE, FR, GB, IT, LI				
	JP 05078382	A2	19930330	JP 1991-211833	19910823
PRAI	JP 1990-222187		19900823		
	JP 1990-228306		19900831		
	JP 1990-228307		19900831		
	JP 1990-235649		19900907		
	JP 1990-335713		19901130		
	JP 1991-99050		19910430		
	JP 1991-211833		19910823		
	WO 1991-JP1122		19910823		

=> d l11 1-3 all

L11 ANSWER 1 OF 3 CA COPYRIGHT 2000 ACS
AN 123:33580 CA
TI Preparation of sulfated and acylated **oligoglycosides** as virucides.
IN Shoji, Tadao; Kasai, Akira; Misumi, Osamu; Ikushima, Naoya; Yamamoto, Naoki; Nakashima, Hideki; Inazawa, Kazuhiko; Takahashi, Nahoko

PA Dainippon Ink Chemical Industry Co., Japan

SO Eur. Pat. Appl., 47 pp.

CODEN: EPXXDW

DT Patent

LA English

IC ICM C07H017-065

ICS C07H015-203; C07H015-04; C08B037-00; A61K031-70

CC 33-4 (Carbohydrates)

Section cross-reference(s): 1, 63

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 606882	A1	19940720	EP 1994-100286	19940111
	R: CH, DE, FR, GB, LI				
	JP 06256373	A2	19940913	JP 1993-327070	19931224
	US 5459257	A	19951017	US 1994-179623	19940107

PRAI JP 1993-2566 19930111

AB Sulfated, acylated **oligoglycosides** made up of 1 or 2 kinds of monosaccharide units and in which oligosaccharide the H atom in the OH group at the 1-position of a reducing end sugar of the oligosaccharide

has been substituted with an aglycon selected from alkyl, aralkyl, aralkoxy, and tocopheryl groups, and from 12 to 80 % of the residual hydroxyl groups

in the oligosaccharide have been acylated with aliph. or arom. acyl groups, and 88 to 20 % thereof have been sulfated; with the proviso that compds. wherein the aglycon is an alkyl group and the acyl group is an aliph. acyl group are excluded, were prepd. Thus, laminaripentaose was converted to O-sulfated n-dodecyl O-benzoyl-.beta.-D-laminaripentaoside (I) by successive peracetylation with Ac2O/NaOAc, glycosidation with n-dodecanol, deacetylation with NaOMe, acylation with PhCOCl/pyridine,

and

sulfation with SO3.pyridine. Title compds. showed anti-HIV activity in MT-4 cells with EC50 = 0.4-20.6 .mu.g/mL. I tablet formulations are given.

ST **oligoglycoside** sulfated acylated prepn virucide; hiv virucide sulfated acylated **oligoglycoside**

IT Virucides and Virustats

(prepn. of sulfated and acylated **oligoglycosides** as virucides)

IT Glycosides

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of sulfated and acylated **oligoglycosides** as virucides)

IT 141704-74-7DP, sulfated, acylated 141790-12-7DP, sulfated, acylated
145703-23-7DP, sulfated, acylated 145703-25-9DP, sulfated, acylated
150396-27-3DP, sulfated, acylated 150396-36-4DP, sulfated, acylated
162736-36-9DP, sulfated, acylated 162736-37-0DP, sulfated, acylated
162736-38-1DP, sulfated, acylated 162736-39-2DP, sulfated, acylated
162736-40-5DP, sulfated, acylated 162736-41-6DP, sulfated, acylated
162736-44-9DP, sulfated, acylated 162736-45-0DP, sulfated, acylated
162736-53-0DP, sulfated, acylated 162736-53-0P 162762-10-9DP,
sulfated, acylated 162762-11-0DP, sulfated, acylated

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of sulfated and acylated **oligoglycosides** as virucides)

IT 98-88-4, Benzoyl chloride 111-64-8, n-Octanoyl chloride 112-16-3,
n-Dodecanoyl chloride 112-67-4, Hexadecanoyl chloride 141-75-3,
Butyryl chloride 403-43-0, 4-Fluorobenzoyl chloride 10191-41-0,

DL-...alpha...-Tocopherol 23743-55-7, Laminaripentaose 49763-65-7,
 4-Pentylbenzoyl chloride 72482-64-5, 2,4-DiFluorobenzoyl chloride
 RL: RCT (Reactant)
 (prepn. of sulfated and acylated **oligoglycosides** as
 virucides)

IT 49587-44-2P 141704-74-7P 141790-12-7P 145703-24-8P 145703-25-9P
 150396-27-3P 150396-36-4P 151293-08-2P 162736-36-9P 162736-37-0P
 162736-38-1P 162736-39-2P 162736-40-5P 162736-41-6P 162736-44-9P
 162736-45-0P 162736-47-2P 162736-48-3P 162736-49-4P 162736-50-7P
 162736-51-8P 162736-52-9P 162762-10-9P 162762-11-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of sulfated and acylated **oligoglycosides** as
 virucides)

L11 ANSWER 2 OF 3 CA COPYRIGHT 2000 ACS
 AN 119:135660 CA
 TI Astragalosides from Egyptian Astragalus spinosus Vahl
 AU Abdallah, Rokia M.; Ghazy, Nabila M.; El-Sebakhy, Nadia A.; Pirillo,
 Angela; Verotta, Luisella
 CS Fac. Pharm., Univ. Alexandria, Egypt
 SO Pharmazie (1993), 48(6), 452-4
 CODEN: PHARAT; ISSN: 0031-7144
 DT Journal
 LA English
 CC 11-1 (Plant Biochemistry)
 Section cross-reference(s): 1, 30, 33
 AB Four cycloartane triterpene **oligoglycosides** were isolated from
 the butanol ext. of the aerial parts of A. spinosus (Leguminosae). They
 were identified as astragaloside I, isoastragaloside I, astragaloside
 IV
 and cycloastragenol 6-O-glucoside on the basis of comparing their m.p.'s,
 1H NMR and 13C NMR spectra and chromatog. patterns with the data given in
 the literature. The results of AIDS antiviral and antitumor screening of
 the major component, astragaloside II, are discussed.
 ST Astragalus astragaloside
 IT Neoplasm inhibitors
 (astragaloside II from Astragalus spinosus as)
 IT Virucides and Virustats
 (astragaloside II from Astragalus spinosus as, against AIDS)
 IT Astragalus spinosus
 (astragalosides from)
 IT **Virus**, animal
 (human immunodeficiency 1, astragaloside II from Astragalus spinosus
 activity against)
 IT Glycosides
 RL: BIOL (Biological study)
 (triterpenoid, cycloartane, from Astragalus spinosus)
 IT 83207-61-8, Cycloastragenol 6-O-glucoside 84676-88-0, Isoastragaloside
 I
 84676-89-1, Astragaloside II 84680-75-1 84687-43-4
 RL: BIOL (Biological study)
 (from Astragalus spinosus, isolation and structure of)

L11 ANSWER 3 OF 3 CA COPYRIGHT 2000 ACS
 AN 117:70254 CA
 TI Preparation of **oligoglycoside** sulfates as antiviral agents and
 pharmaceutical compositions containing them.
 IN Shoji, Tadao; Takahashi, Nahoko; Ikushima, Naoya; Katsuraya, Kaname;
 Uryu,
 Toshiyuki; Yoshida, Takashi; Nishihashi, Hideji; Yamamoto, Naoki;
 Nakashima, Hideki; Shigeta, Shiro
 PA Dainippon Ink Chemical Industry Co., Japan
 SO PCT Int. Appl., 86 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

IC ICM C07H015-04

ICS A61K031-70

CC 33-3 (Carbohydrates)

Section cross-reference(s): 1, 63

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9203453	A1	19920305	WO 1991-JP1122	19910823
	W: AU, CA, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
	CA 2071915	AA	19920224	CA 1991-2071915	19910823
	AU 9183346	A1	19920317	AU 1991-83346	19910823
	AU 644895	B2	19931223		
	EP 497988	A1	19920812	EP 1991-914756	19910823
	R: CH, DE, FR, GB, IT, LI				
	JP 05078382	A2	19930330	JP 1991-211833	19910823
PRAI	JP 1990-222187		19900823		
	JP 1990-228306		19900831		
	JP 1990-228307		19900831		
	JP 1990-235649		19900907		
	JP 1990-335713		19901130		
	JP 1991-99050		19910430		
	JP 1991-211833		19910823		
	WO 1991-JP1122		19910823		
AB	The title compds. with .gtoreq.14.3% sulfation and their pharmaceutically acceptable salts are prepd. Crude peracetyl-.beta.-D-maltopentaose (prepn. given) was reacted with n-decanol in CH2Cl2 contg. SnCl4 at room temp. for 40 h to give dodecyl peracetyl-.beta.-D-maltopentaoside, which was deacetylated with NaOMe-MeOH and then sulfated with piperidine sulfate				
	to give sulfated dodecyl .beta.-D-maltopentaoside with a sulfation degree of 1.8 (56.3% sulfation). In an in vitro expt., this at 200 .mu.g/mL showed inhibition in HTLV-1-infected T4 antigen-pos. cells. Formulations of tablets contg. the title compds. are described.				
ST	oligoglycoside sulfate prepn antiviral				
IT	Virucides and Virustats				
	(oligoglycoside sulfates)				
IT	Virus , animal				
	(human T-cell leukemia type I, inhibitors, sulfated				
	oligoglycosides as)				
IT	Glycosides				
	RL: SPN (Synthetic preparation); PREP (Preparation)				
	(oligo-, sulfo, prepn. of, as antivirals)				
IT	74513-18-1DP, oligomers, sulfates, sodium salts 93911-18-3DP, sulfates, sodium salts 122759-52-8DP, oligomers, sulfates, sodium salts 141704-74-7DP, sulfates, sodium salts, oligomers 141790-10-5DP, sulfates, sodium salts 141790-12-7DP, sulfates, sodium salts 141847-31-6DP, sulfates, sodium salts 142300-68-3DP, sulfates 142300-69-4DP, sulfates 142300-70-7DP, sulfates, sodium salts 142300-71-8DP, sulfates, sodium salts 142300-72-9DP, sulfates, sodium salts				
	RL: SPN (Synthetic preparation); PREP (Preparation)				
	(prepn. of, as antivirals)				
IT	49587-44-2P 66183-05-9P 121412-65-5P 141704-74-7P 141790-12-7P 141847-31-6P 142300-68-3P 142300-69-4P 142507-31-1P				
	RL: SPN (Synthetic preparation); PREP (Preparation)				
	(prepn. of, as intermediate for antivirals)				
IT	59-23-4D, Galactose, .beta.(1.fwdarw.4)-type oligomers 112-30-1, 1-Decanol 112-53-8, 1-Dodecanol 112-92-5D, 1-Octadecanol, .beta.(1.fwdarw.4)-type oligomers 1109-28-0D, Maltotriose,				

.beta.(1.fwdarw.4)-type oligomers 23743-55-7, Laminaripentaose
 34620-76-3 34620-77-4D, Maltohexaose, .beta.(1.fwdarw.4)-type oligomers
 36653-82-4, 1-Hexadecanol 118396-93-3 142394-80-7
 RL: RCT (Reactant)
 (reaction of, in prepn. of antivirals)

=> e bacterial

E1	1	BACTERIAGAVE/BI
E2	3	BACTERIAIN/BI
E3	150030 -->	BACTERIAL/BI
E4	1	BACTERIALCELLS/BI
E5	1	BACTERIALDECOMP/BI
E6	1	BACTERIALESS/BI
E7	1	BACTERIALGROWTH/BI
E8	3	BACTERIALIKE/BI
E9	1	BACTERIALIMMUNOFLUORESCENCE/BI
E10	1	BACTERIALINFESTATION/BI
E11	1	BACTERIALIZED/BI
E12	1	BACTERIALLUCIFERASE/BI

=> s e3

L12 150030 BACTERIAL/BI

=> s l12 and l9

L13 0 L12 AND L9

=> d his

(FILE 'HOME' ENTERED AT 14:20:25 ON 21 SEP 2000)

FILE 'REGISTRY' ENTERED AT 14:20:30 ON 21 SEP 2000

L1	0 S	ALKYLOLIGOGLYCOSIDE
L2	0 S	OCTYLGLUCOPYRANOSIDE
L3	0 S	OCTYLGLUCOPYRANOSIDE
	E	GLUCOPYRANOSIDE
L4	62241 S	E3
L5	5790 S	ALKYL
L6	2 S	L4 AND L5

FILE 'CA' ENTERED AT 14:24:29 ON 21 SEP 2000

L7	95287 S	L4
	E	ALKYLOLIGOGLYCOSIDES
L8	7 S	E1-E3 OR E10
	E	OLIGOGLYCOSIDES
L9	415 S	E2-E4
L10	239284 S	VIRAL OR VIRUS OR HIV OR HERPES
L11	3 S	L9 AND L10
	E	BACTERIAL
L12	150030 S	E3
L13	0 S	L12 AND L9

=> e antibacterial

E1	2	ANTIBACTERAL/BI
E2	280	ANTIBACTERIA/BI
E3	45487 -->	ANTIBACTERIAL/BI
E4	1	ANTIBACTERIAL312/BI
E5	102	ANTIBACTERIALLY/BI

E6 2417 ANTIBACTERIALS/BI
 E7 1 ANTIBACTERIALSPECTRUM/BI
 E8 1 ANTIBACTERIASCLEROTIC/BI
 E9 5 ANTIBACTERIC/BI
 E10 22 ANTIBACTERICAL/BI
 E11 1 ANTIBACTERICALS/BI
 E12 58 ANTIBACTERICIDAL/BI

=> s e2-e6

280 ANTIBACTERIA/BI
 45487 ANTIBACTERIAL/BI
 1 ANTIBACTERIAL312/BI
 102 ANTIBACTERIALLY/BI
 2417 ANTIBACTERIALS/BI
 L14 46263 (ANTIBACTERIA/BI OR ANTIBACTERIAL/BI OR ANTIBACTERIAL312/BI OR
 ANTIBACTERIALLY/BI OR ANTIBACTERIALS/BI)

=> s 19 and 114

L15 1 L9 AND L14

=> d 115

L15 ANSWER 1 OF 1 CA COPYRIGHT 2000 ACS
 AN 127:55917 CA
 TI Sugar derivatives as antimicrobial agents
 IN Schneider, Guenther; Schreiber, Joerg; Teichmann, Stefan; Buenger,
 Joachim; Wolf, Florian
 PA Beiersdorf A.-G., Germany
 SO Ger. Offen., 16 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19547160	A1	19970619	DE 1995-19547160	19951216
	WO 9722346	A2	19970626	WO 1996-EP5400	19961204
	WO 9722346	A3	19970828		
	W: JP, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT,				
SE	EP 869797	A2	19981014	EP 1996-942332	19961204
	R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
	JP 2000506499	T2	20000530	JP 1997-522461	19961204
PRAI	DE 1995-19547160		19951216		
	WO 1996-EP5400		19961204		
OS	MARPAT 127:55917				

=> d 115 all

L15 ANSWER 1 OF 1 CA COPYRIGHT 2000 ACS
 AN 127:55917 CA
 TI Sugar derivatives as antimicrobial agents
 IN Schneider, Guenther; Schreiber, Joerg; Teichmann, Stefan; Buenger,
 Joachim; Wolf, Florian
 PA Beiersdorf A.-G., Germany
 SO Ger. Offen., 16 pp.
 CODEN: GWXXBX

DT Patent
 LA German
 IC ICM A61K031-70
 ICS A61K007-32; A61K007-40; A61K007-06; A61K007-075; A61K007-02;
 A61K007-48
 CC 63-6 (Pharmaceuticals)
 Section cross-reference(s): 62

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19547160	A1	19970619	DE 1995-19547160	19951216
	WO 9722346	A2	19970626	WO 1996-EP5400	19961204
	WO 9722346	A3	19970828		
	W: JP, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT,				

SE

EP 869797	A2	19981014	EP 1996-942332	19961204
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
JP 2000506499	T2	20000530	JP 1997-522461	19961204

PRAI DE 1995-19547160 19951216

WO 1996-EP5400 19961204

OS MARPAT 127:55917

AB Alkylated and/or acylated mono- and/or oligosaccharides are useful in cosmetic and dermatol. preps. as **antibacterial**, antimycotic, and antiviral agents, esp. in deodorant preps. and for treatment of dermatomycoses, dandruff, and dermal superinfections with microbial pathogens. Thus, a facial mask contained PEG-50 lanolin 0.50, glyceryl stearate 2.00, sunflower seed oil 3.00, bentonite 8.00, kaolin 35.00, ZnO 5.00, glucose caprylate 2.00, perfume, preservative, and water to 100.0 wt.%.
 ST sugar deriv antimicrobial skin; monosaccharide deriv bactericide cosmetic;
 oligosaccharide deriv fungicide virucide skin

IT Hexoses
 RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (alkyl glycosides and esters; sugar derivs. as antimicrobial agents)

IT Glycosides
 RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (alkyl **oligoglycosides**; sugar derivs. as antimicrobial agents)

IT Monosaccharides
 Oligosaccharides, biological studies
 RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (esters; sugar derivs. as antimicrobial agents)

IT Cosmetics
 (face masks; sugar derivs. as antimicrobial agents)

IT Soaps
 RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (microbicidal; sugar derivs. as antimicrobial agents)

IT Conditioning shampoos
 Cosmetics
 Deodorants
 Lipsticks
 Shaving preparations
 Topical drug delivery systems
 (sugar derivs. as antimicrobial agents)

IT Alkyl glycosides
 RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(sugar derivs. as antimicrobial agents)
 IT 25339-99-5 27216-47-3 29836-26-8, Octyl .beta.-D-glucopyranoside
 31835-06-0, Sucrose caprate 33508-66-6 58846-77-8, Decyl
 .beta.-D-glucopyranoside 59122-55-3, Dodecyl .beta.-D-glucopyranoside
 69984-73-2, Nonyl .beta.-D-glucopyranoside 70005-86-6, Undecyl
 .beta.-D-glucopyranoside 75319-63-0, Hexadecyl .beta.-D-glucopyranoside
 138328-35-5 148619-00-5, Plantaren 1200 148619-01-6, Plantaren 2000
 150679-30-4, Oramix NS 10 191039-78-8
 RL: BAC (Biological activity or effector, except adverse); THU
 (Therapeutic use); BIOL (Biological study); USES (Uses)
 (sugar derivs. as antimicrobial agents)

=> e antifungal

E1	1	ANTIFUNG/BI
E2	1	ANTIFUNGA/BI
E3	15471 -->	ANTIFUNGAL/BI
E4	7	ANTIFUNGALLY/BI
E5	524	ANTIFUNGALS/BI
E6	21	ANTIFUNGI/BI
E7	2	ANTIFUNGIAL/BI
E8	3	ANTIFUNGIC/BI
E9	1	ANTIFUNGICAL/BI
E10	30	ANTIFUNGICIDAL/BI
E11	11	ANTIFUNGICIDE/BI
E12	7	ANTIFUNGICIDES/BI

=> s e3-e5

	15471	ANTIFUNGAL/BI
	7	ANTIFUNGALLY/BI
	524	ANTIFUNGALS/BI
L16	15618	(ANTIFUNGAL/BI OR ANTIFUNGALLY/BI OR ANTIFUNGALS/BI)

=> s l16 and l9

L17 9 L16 AND L9

=> d l17 1-9

L17 ANSWER 1 OF 9 CA COPYRIGHT 2000 ACS
 AN 130:265046 CA
 TI Characterization of antimicrobial agents extracted from Asterina
 pectinifera
 AU Choi, Don Ho; Shin, Sook; Park, In Kook
 CS Department of Applied Biology, Dongguk University, Seoul, 100-715, S.
 Korea
 SO Int. J. Antimicrob. Agents (1999), 11(1), 65-68
 CODEN: IAAGEA; ISSN: 0924-8579
 PB Elsevier Science Ireland Ltd.
 DT Journal
 LA English
 RE.CNT 17
 RE
 (4) Iorizzi, M; J Nat Prod 1992, V55, P866 CA
 (5) Iorizzi, M; J Nat Prod 1993, V56, P2149 CA
 (6) Iorizzi, M; J Nat Prod 1995, V58, P10 CA
 (7) Killday, K; J Nat Prod 1993, V56, P500 CA
 (8) Kitagawa, I; Chem Pharm Bull 1978, V26, P3722 CA
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 2 OF 9 CA COPYRIGHT 2000 ACS
 AN 116:102855 CA
 TI Marine natural products. XXVII. Distribution of lanostane-type triterpene **oligoglycosides** in ten kinds of Okinawan Sea cucumbers
 AU Kobayashi, Motomasa; Hori, Manabu; Kan, Kumiko; Yasuzawa, Tohru; Matsui, Matsutaro; Suzuki, Shigeki; Kitagawa, Isao
 CS Fac. Pharm. Sci., Osaka Univ., Suita, 565, Japan
 SO Chem. Pharm. Bull. (1991), 39(9), 2282-7
 CODEN: CPBTAL; ISSN: 0009-2363
 DT Journal
 LA English

L17 ANSWER 3 OF 9 CA COPYRIGHT 2000 ACS
 AN 111:112392 CA
 TI Marine natural products. XIX. Pervicosides A, B, and C, lanostane-type triterpene-**oligoglycoside** sulfates from the sea cucumber *Holothuria pervicax*
 AU Kitagawa, Isao; Kobayashi, Motomasa; Son, Byeng Wha; Suzuki, Shigeki; Kyogoku, Yoshimasa
 CS Fac. Pharm. Sci., Osaka Univ., Suita, 565, Japan
 SO Chem. Pharm. Bull. (1989), 37(5), 1230-4
 CODEN: CPBTAL; ISSN: 0009-2363
 DT Journal
 LA English

L17 ANSWER 4 OF 9 CA COPYRIGHT 2000 ACS
 AN 110:209543 CA
 TI Marine natural products. XVIII. Four lanostane-type triterpene **oligoglycosides**, bivittosides A, B, C, and D, from the Okinawan sea cucumber *Bohadschia bivittata* Mitsukuri
 AU Kitagawa, Isao; Kobayashi, Motomasa; Hori, Manabu; Kyogoku, Yoshimasa
 CS Fac. Pharm. Sci., Osaka Univ., Suita, 565, Japan
 SO Chem. Pharm. Bull. (1989), 37(1), 61-7
 CODEN: CPBTAL; ISSN: 0009-2363
 DT Journal
 LA English

L17 ANSWER 5 OF 9 CA COPYRIGHT 2000 ACS
 AN 95:199426 CA
 TI The structures of six **antifungal oligoglycosides**, stichlorosides A1, A2, B1, B2, C1, and C2, from the sea cucumber *Stichopus chloronotus* (Brandt)
 AU Kitagawa, Isao; Kobayashi, Motomasa; Inamoto, Tatsuya; Yasuzawa, Tohru; Kyogoku, Yoshimasa
 CS Fac. Pharm. Sci., Osaka Univ., Suita, 565, Japan
 SO Chem. Pharm. Bull. (1981), 29(8), 2387-91
 CODEN: CPBTAL; ISSN: 0009-2363
 DT Journal
 LA English

L17 ANSWER 6 OF 9 CA COPYRIGHT 2000 ACS
 AN 95:37623 CA
 TI Stichlorogenol and dehydrostichlorogenol, genuine aglycons of stichlorosides A1, B1, C1 and A2, B2, C2, from the sea cucumber *Stichopus chloronotus* (Brandt)
 AU Kitagawa, Isao; Kobayashi, Motomasa; Inamoto, Tatsuya; Yasuzawa, Tohru; Kyogoku, Yoshimasa; Kido, Masaru
 CS Fac. Pharm. Sci., Osaka Univ., Osaka, 565, Japan
 SO Chem. Pharm. Bull. (1981), 29(4), 1189-92
 CODEN: CPBTAL; ISSN: 0009-2363
 DT Journal

LA English

L17 ANSWER 7 OF 9 CA COPYRIGHT 2000 ACS

AN 93:204970 CA

TI Structures of echinoside A and B, two **antifungal oligoglycosides** from the sea cucumber *Actinopyga echinites* (Jaeger)

AU Kitagawa, Isao; Inamoto, Tatsuya; Fuchida, Masako; Okada, Shinji; Kobayashi, Motomasa; Nishino, Takao; Kyogoku, Yoshimasa

CS Fac. Pharm. Sci., Osaka Univ., Suita, 565, Japan

SO Chem. Pharm. Bull. (1980), 28(5), 1651-3

CODEN: CPBTAL; ISSN: 0009-2363

DT Journal

LA English

L17 ANSWER 8 OF 9 CA COPYRIGHT 2000 ACS

AN 93:182796 CA

TI Triterpene glycosides with **antifungal** activity isolated from the sea cucumber *Cucumaria japonica*

AU Batrakov, S. G.; Girshovich, E. S.; Drozhzhina, N. S.

CS Cent. Inst. Adv. Med. Train., Moscow, USSR

SO Antibiotiki (Moscow) (1980), 25(6), 408-11

CODEN: ANTBAL; ISSN: 0003-5637

DT Journal

LA Russian

L17 ANSWER 9 OF 9 CA COPYRIGHT 2000 ACS

AN 90:187277 CA

TI Saponin and sapogenol. XXVII. Revised structures of holotoxin A and holotoxin B, two **antifungal oligoglycosides** from the sea cucumber *Stichopus japonicus* Selenka

AU Kitagawa, Isao; Yamanaka, Hideaki; Kobayashi, Motomasa; Nishino, Takao; Yosioka, Itiro; Sugawara, Tamio

CS Fac. Pharm. Sci., Osaka Univ., Osaka, Japan

SO Chem. Pharm. Bull. (1978), 26(12), 3722-31

CODEN: CPBTAL; ISSN: 0009-2363

DT Journal

LA English

=> d 117 5 7 all

L17 ANSWER 5 OF 9 CA COPYRIGHT 2000 ACS

AN 95:199426 CA

TI The structures of six **antifungal oligoglycosides**, stichlorosides A1, A2, B1, B2, C1, and C2, from the sea cucumber *Stichopus*

chloronotus (Brandt)

AU Kitagawa, Isao; Kobayashi, Motomasa; Inamoto, Tatsuya; Yasuzawa, Tohru; Kyogoku, Yoshimasa

CS Fac. Pharm. Sci., Osaka Univ., Suita, 565, Japan

SO Chem. Pharm. Bull. (1981), 29(8), 2387-91

CODEN: CPBTAL; ISSN: 0009-2363

DT Journal

LA English

CC 6-4 (General Biochemistry)

GI For diagram(s), see printed CA Issue.

AB Chem. structures are reported for 6 **antifungal lanostane-type triterpene oligoglycosides** from the Okinawan sea cucumber *S. chloronotus*. These compds. are stichlorosides A1, B1, C1 (I, II, and III, resp.), A2, B2, and C2.

ST stichloroside structure sea cucumber; Stichopus stichloroside structure
 IT Molecular structure, natural product
 (of stichloroside A1)
 IT Molecular structure, natural product
 (of stichloroside A2)
 IT Molecular structure, natural product
 (of stichloroside B1)
 IT Molecular structure, natural product
 (of stichloroside B2)
 IT Molecular structure, natural product
 (of stichloroside C1)
 IT Molecular structure, natural product
 (of stichloroside C2)
 IT Stichopus chloronotus
 (stichlorosides of, structure of)
 IT 9068-31-9
 RL: RCT (Reactant)
 (desacetylstichloride A1 hydrolysis by)
 IT 79874-12-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and enzymic hydrolysis of)
 IT 79863-55-1P 79874-14-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and hydrolysis of)
 IT 79863-51-7P 79863-52-8P 79874-13-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and methanolysis of)
 IT 79863-46-0P 79863-47-1P 79863-48-2P 79863-49-3P 79863-50-6P
 79863-53-9P 79863-54-0P 79863-56-2P 79874-15-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and methylation of)
 IT 78183-30-9P 79863-57-3P 79874-16-1P 79874-17-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 IT 78244-70-9 78244-71-0 78244-72-1 78244-73-2 78244-74-3
 78244-75-4
 RL: PRP (Properties)
 (structure of, of sea cucumber)

L17 ANSWER 7 OF 9 CA COPYRIGHT 2000 ACS
 AN 93:204970 CA
 TI Structures of echinoside A and B, two **antifungal**
oligoglycosides from the sea cucumber Actinopyga echinites
 (Jaeger)
 AU Kitagawa, Isao; Inamoto, Tatsuya; Fuchida, Masako; Okada, Shinji;
 Kobayashi, Motomasa; Nishino, Takao; Kyogoku, Yoshimasa
 CS Fac. Pharm. Sci., Osaka Univ., Suita, 565, Japan
 SO Chem. Pharm. Bull. (1980), 28(5), 1651-3
 CODEN: CPBTAL; ISSN: 0009-2363
 DT Journal
 LA English
 CC 33-8 (Carbohydrates)
 Section cross-reference(s): 12, 30
 GI For diagram(s), see printed CA Issue.
 AB On the basis of chem. and physicochem. evidence, the structures of 2
antifungal oligoglycosides, echinosides A and B from the
 sea cucumber A. echinites (Jaeger) have been elucidated as I (R = Q) and
 I
 (R = Q1), resp.
 ST Actinopyga **oligoglycoside** mol structure; glycoside triterpenoid
 Actinopyga mol structure; echinoside A mol structure; echinoside B mol
 structure
 IT Actinopyga echinites

(antifungal oligoglycosides of, structure detn. of)

IT Nomenclature, new natural products
(echinoside A)

IT Nomenclature, new natural products
(echinoside B)

IT Molecular structure, natural product
(of echinoside A)

IT Molecular structure, natural product
(of echinoside B)

IT Triterpenes and Triterpenoids
RL: PROC (Process)
(glycosidal, from Actinopyga echinites, structure detn. of)

IT Glycosides
RL: PROC (Process)
(oligo-, from Actinopyga echinites, structure detn. of)

IT 75410-52-5P 75410-53-6P
RL: PREP (Preparation)
(from Acintopyga echinites, structure detn. of)

IT 75443-67-3P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and NMR of)

IT 75410-56-9P 75410-58-1P 75422-86-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and methanolysis of)

IT 75410-55-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and methylation of)

IT 75410-54-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and oxidn. of)

IT 6722-82-3P 75410-57-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

IT 25495-63-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn., redn., and acetylation of)

=> d his

(FILE 'HOME' ENTERED AT 14:20:25 ON 21 SEP 2000)

FILE 'REGISTRY' ENTERED AT 14:20:30 ON 21 SEP 2000

L1 0 S ALKYLOLIGOLYCOSE
L2 0 S OCTYLGLUCOPYRANOSIDE
L3 0 S OCTYLGLUCOPYRANOSIDE
E GLUCOPYRANOSIDE
L4 62241 S E3
L5 5790 S ALKYL
L6 2 S L4 AND L5

FILE 'CA' ENTERED AT 14:24:29 ON 21 SEP 2000

L7 95287 S L4
E ALKYLOLIGOLYCOSE
L8 7 S E1-E3 OR E10
E OLIGOLYCOSE
L9 415 S E2-E4
L10 239284 S VIRAL OR VIRUS OR HIV OR HERPES
L11 3 S L9 AND L10
E BACTERIAL
L12 150030 S E3
L13 0 S L12 AND L9

E ANTIBACTERIAL
 L14 46263 S E2-E6
 L15 1 S L9 AND L14
 E ANTIFUNGAL
 L16 15618 S E3-E5
 L17 9 S L16 AND L9

=> e antiviral

E1 3 ANTIVIR/BI
 E2 1 ANTIVIRA/BI
 E3 27761 --> ANTIVIRAL/BI
 E4 1 ANTIVIRALE/BI
 E5 1 ANTIVIRALEN/BI
 E6 88 ANTIVIRALLY/BI
 E7 579 ANTIVIRALS/BI
 E8 92 ANTIVIRIAL/BI
 E9 1 ANTIVIRIALS/BI
 E10 1 ANTIVIRIL/BI
 E11 14 ANTIVIRIN/BI
 E12 1 ANTIVIRINS/BI

=> s e3 or e6-e8

27761 ANTIVIRAL/BI
 88 ANTIVIRALLY/BI
 579 ANTIVIRALS/BI
 92 ANTIVIRIAL/BI
 L18 27918 ANTIVIRAL/BI OR (ANTIVIRALLY/BI OR ANTIVIRALS/BI OR
 ANTIVIRIAL/B
 I)

=> s l18 and l9

L19 3 L18 AND L9

=> d l19 1-3

L19 ANSWER 1 OF 3 CA COPYRIGHT 2000 ACS
 AN 127:55917 CA
 TI Sugar derivatives as antimicrobial agents
 IN Schneider, Guenther; Schreiber, Joerg; Teichmann, Stefan; Buenger,
 Joachim; Wolf, Florian
 PA Beiersdorf A.-G., Germany
 SO Ger. Offen., 16 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19547160	A1	19970619	DE 1995-19547160	19951216
	WO 9722346	A2	19970626	WO 1996-EP5400	19961204
	WO 9722346	A3	19970828		
	W: JP, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT,				
SE	EP 869797	A2	19981014	EP 1996-942332	19961204
	R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
	JP 2000506499	T2	20000530	JP 1997-522461	19961204
PRAI	DE 1995-19547160		19951216		
	WO 1996-EP5400		19961204		

OS MARPAT 127:55917

L19 ANSWER 2 OF 3 CA COPYRIGHT 2000 ACS

AN 119:135660 CA

TI Astragalosides from Egyptian Astragalus spinosus Vahl

AU Abdallah, Rokia M.; Ghazy, Nabila M.; El-Sebakhy, Nadia A.; Pirillo, Angela; Verotta, Luisella

CS Fac. Pharm., Univ. Alexandria, Egypt

SO Pharmazie (1993), 48(6), 452-4

CODEN: PHARAT; ISSN: 0031-7144

DT Journal

LA English

L19 ANSWER 3 OF 3 CA COPYRIGHT 2000 ACS

AN 117:70254 CA

TI Preparation of **oligoglycoside** sulfates as **antiviral** agents and pharmaceutical compositions containing them.

IN Shoji, Tadao; Takahashi, Nahoko; Ikushima, Naoya; Katsuraya, Kaname; Uryu,

Toshiyuki; Yoshida, Takashi; Nishihashi, Hideji; Yamamoto, Naoki; Nakashima, Hideki; Shigeta, Shiro

PA Dainippon Ink Chemical Industry Co., Japan

SO PCT Int. Appl., 86 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9203453	A1	19920305	WO 1991-JP1122	19910823
	W: AU, CA, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
	CA 2071915	AA	19920224	CA 1991-2071915	19910823
	AU 9183346	A1	19920317	AU 1991-83346	19910823
	AU 644895	B2	19931223		
	EP 497988	A1	19920812	EP 1991-914756	19910823
	R: CH, DE, FR, GB, IT, LI				
	JP 05078382	A2	19930330	JP 1991-211833	19910823
PRAI	JP 1990-222187		19900823		
	JP 1990-228306		19900831		
	JP 1990-228307		19900831		
	JP 1990-235649		19900907		
	JP 1990-335713		19901130		
	JP 1991-99050		19910430		
	JP 1991-211833		19910823		
	WO 1991-JP1122		19910823		

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L4 62241 S E3
L5 5790 S ALKYL
L6 2 S L4 AND L5

FILE 'CA' ENTERED AT 14:24:29 ON 21 SEP 2000

E GLUCOPYRANOSIDE

L4 62241 S E3
L5 5790 S ALKYL
L6 2 S L4 AND L5

FILE 'CA' ENTERED AT 14:24:29 ON 21 SEP 2000

L7 95287 S L4
E ALKYL OLIGOLIGOSIDES
L8 7 S E1-E3 OR E10
E OLIGOLIGOSIDES
L9 415 S E2-E4
L10 239284 S VIRAL OR VIRUS OR HIV OR HERPES
L11 3 S L9 AND L10
E BACTERIAL
L12 150030 S E3
L13 0 S L12 AND L9
E ANTIBACTERIAL
L14 46263 S E2-E6
L15 1 S L9 AND L14
E ANTIFUNGAL
L16 15618 S E3-E5
L17 9 S L16 AND L9
E ANTIVIRAL
L18 27918 S E3 OR E6-E8
L19 3 S L18 AND L9
L20 1 S L19 NOT L11

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---Logging off of STN---

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Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
95.76	118.85

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
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Dossier: 09091602

Legal Date: 09-26-2000

No.	Doccode	Number of pages
1	CTNF	6
2	892	1

Total number of pages: 7

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